Approved For Release 2001/12/05 : CIA-RDP83-00415R009000040001-6

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SFORET CONTROL U. S. OFFICE

TOPIC The Copper		·	- 1 - 11 -					
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EVALUATION	<i>S</i>	CE OBTAINED_						
DATE OF CONT			***				•	
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REFERENCES			· · · · · · · · · · · · · · · · · · ·					
PAGES	ENCLOSURES	(No. & Type)	1	map KXXXX	tabula	tea	chart	t
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	ter grand grand and the state of the state o							
SOURCE *			······································			***		
	ndications:	•	**					

a. Naw material basis for copper production

content of the ore) in 1937. 7.9 million tons of this amount were of the A and B categories, that is to say these deposits were prospected and opened. 93 percent of the total copper re-

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serves are distributed in following four large areas:

(sources No.3,4, and 7)

Area	Reserves in terms			Percentage of		
	of co	pper cont	total reserves			
	٠					
Urals		2.7 mil	lion tons	16		
Kazakhstan		9.0 "	n ·	53		
Uzbekistan		2.6	· .	15		
Armenia	•	1.6 "	tt,	9		
Uther areas		1.8	n	7		
Total		17.1	Ħ	100		

Meanwhile the proven reserves may have increased to about 20 million tons due to intensive prospecting activities. This refers mainly to the deposits of the Categories A and B.

The large but so far little explored resources of Kazakstan and Central Asia and, to a smaller extent, those of the Caucasus area mainly account to the increase of reserves. This tendency was already indicated in prewar years. The deposits in the Urals can be considered as proven reserves due to long-time prospecting activities.

The proven reserves (Categories A and B) as of 1937 would EXEN

last about 30 years even at an annual production of 275,000 tons

of primary copper (presumable EXENTING 1950 planning figure).

in the long run

However, a rapid exhaustion of the Urals reserves resulting

in a transfer of copper production (ore EXENTING and Smelting)

Land Street Control of the Control o

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A Comment

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to Central "sia must then be expected.

The ore many deposits in the Soviet Union have an average copper content of 1.1 percent. Many deposits presently being mined still have a copper content of 2 to 5 percent, but this percentage figure is on the decline due to the exhaustion of rich ore occurrences. (2,3,4,5,7)

b. The 1940 primary and secondary copper production in the Soviet Union amounted to 160,000 tons (3). It may have reached 190,000 tons in 1945 and will be increased to 300,000 tons in 1950. (According to some No.6 it will be 1.6 times that of 1945).

The attainment of this target figure will depend/on the realization of following projects:

- (1) Completion of the large kazakpai -Dzhezkazgan Copper Combine
- (2) Expansion of the Balkhash-Kounrad Combine
- each (more than (1) and (2) have/a provisional annual capacity of \$50,000 tons of crude copper)
- (3) Expansion of the MEDNOGROSK Plant in the Urals.
- "t present (and also in 1950) still about 55 percent of copper production will be centered in the Urals though provisions are made in the Five Year Plan to adjust the

Kazakstan production share to the Kazakstan share of Approved For Revision 1105 SCIATER 10416 R030 1004 1000 1-6

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reserves (53 percent) (6,9) The significance of the

Saucasus production and of other regions continues to be on the decline. (2,3) Its share in the total 1850 production may be estainated at 5 to 6 percent. The presumable crude-and electrolytic copper production (excluding treatment of imported material) is listed in the following chart (estimates):

Primary and secundary copper production:

1340 160,000 ton etc. (for figures see German text)
Following capacity is available for the production of
300,000 tons of crude copper (1,2,3,4)

Location Plant.

Capacity

Note

(1) MONCHEGORSK Nickel-Copper slight originally Combine slanned capacity: 10,000 tons

(2) PITKAERANTA Copper Works - At present not in operation Karelia

(3) ALAVERDI Copper works 15,000 tons Two smelting Works. The manew one has a capacity of 10,000 tons

(4) SANGESUR Concentration 5,000 tons The capacity Combine is said to be 10,000 ton:

(5) KRAZNOURALSK Copper Works 40,000 tons

(6) KIROVGRAD Copper works 38,500 "formerly KALATA

Urals

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(7) KARABASH Copper Works 25,500 tons Urals (8) REVDA, Urals " 25,000 " (9) BAIMAK-TANALYK 10,000 " Urals (10) MEDNOGORSK " 50,000 "Being enlarged (Capacity may be smaller than indi-Urals cated) (11) PYSHMA Electrolytic Plant slight Urals (12) KYSHTYM Ħ Urals Copper Combine 50,000 Being expanded (13) KARSAKPAI Kazakstan (14) ALMALYK Under construction Uzbekistan (15) BALKHASH over 50,000 " Being expanded. Uriginally planned capacity 100,000 Kazakstan tens. (16) GLUBOKOYE "Polymetal"Combine 10,000 tons Altai Large and small Alant slight (17) NORILSK

Total: 319,000 tons

Following copper works have

production of electrolytic copper. (1,2,3).

Northwest Siberia smelting works (copper, nickel, cobalt)

Location of plant

Capacity

Note

PYSHMA , Urals

100,000 tons

KYSHTYM, Urals

15,000 "

ALAVERDI, Caucasus

Dept.at the copper xx

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NORILSK, NW. Siberia

Dept.at the copper works (not yet confirmed)

LENINGRAD
"Krazny Vyborzhets"Plant +

Copper Molling Mill, electrolytic dept.not yet confirmed

Also some copper works in the Urals are said to have electrolytic departments. However, they are not yet confirmed. Plans for the construction of an electrolytic plant (1946 to 1959 in Kazakstan are provided in the Five Year Flankingskings (4,6,7). The construction of such a plant had been scheduled in KARAGANDA (based on the KARAGANDA-GREB Power Plant supply) already before the war. It was planned for a capacity of projected 100,000 tons of electrolytic copper. The/construction of the plant itself will not start before 1950 (6) Considering the ratio between the Poviet electrolytic copper consumption and the total Soviet copper consumption as shown in the last prewar year the Soviet Union would require (an amual) plants totaling a capacity of about 50,000 tons to become independent of electrolytic copper imports. This figure is mote than 80 percent of the total production. This goal will probably not be reached before the large KAZAKSTAN Rix Plant is completed. Until then the Soviet Union will have to rely on imported electrolytic copper or will have to restrict the eletrolytic copper consumption.

copper production was at best 25,000 tons.

Resmelted copper (sec@ndary copper) is produced by the MOSCOW

"Molotov" Smelting Works with a capacity of 35,000 tons.

Amount
This is entirely sufficient to meet the requirements of annual this production. So far, **expex** **expex*** the **poviet/secondary**

Thus ,a scheduled annual production of 30°,000 tons of copper is set against a capacity of about 350,000 tons which

must be considered somewhat close all the more since the full capacity is included in the knowever,

350,000 figure.after the realization of the building projects (including the ALNALYK Combine) the knowled the knowledge of the building projects

at least increase to 400,000 tons afterxion by 1950.

c. Imports

The Soviet union has overcome its original heavy dependence on copper imports.

About 40 percent of the correct requirements were still imported by from 1936 to 1940. However, thereexexperxiteexxxvex also during this time these corper stocks were less used for immediate consumption but rather for stockpiling. The corper imports dropped to 27 percent of the total requirements in wartime(1941 to 1945) though finished products such as machine parts made of copper and copper alloys are not in-

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The share of copper imports declined to xx about 5 to 7 percent in the postwar years. These imports come from the Soviet Zone of Germany ("Mannsfeld"Copper Industry, present annual production: about 6,000 to 5,000 tons) ,from Finland ("Outokumpo"Plant, present annual production: about 12,000 to 14,000 tons) and - until recently - from Yugoslavia (maximum imports: 40 000 tons). The imports from these three countries ao not total more than 60,000 tons (10). Unless an intensified stockpiling tendency would cause an increase in imports a further decline and even complete stoppage of copper imports may be expected before long. This would also imply a restricted electro lytic copper consumption.

d. Consumption.

Assuming no wartime stockpiling but rather dwindling stock supplies needed for bridging production—and import gaps the average annual consumption can be computed at 260,000 to 270,000 tons during the five war years. If this wartime consumption is set against the scheduled crude copper production of 300,000 tons it proves that requirements can easily be covered from domestic production eve if civilian peacetime con-

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sumption should increase. In addition, at least certain amounts of crude copper could currently be stored. The electrolytic copper requirements will be covered only by about 60 percent from domestic production within the next time.

- a. Detailed information on copper resources and copper works.
 - a. Copper ore deposits (1,2,3,4,5,7) -ocation, categories and copper content of the copper ore desposits, as well as mining and smelting of copper is shown mn in annex 2.
 - b. Copper works: (42)

Unly a general survey on the individual copper works will be Taxmixheaximxixterxxx Detailed description of the plants will

very impormative statements made by more than 150 PT's.

reports Tel which will

- (1) MONCHEGORSK (Copper-Nickel-Combine)
 - aa. Installation: Details are not available
 - bb. Production: A capacity of 20,000 tons of nickel and 10,000 tons of copper was scheduled. However, these figures may not even be approached. Part of the installations were evacuated to NORILSK and KARSAKPAI during the war. Air raid damages have also restricted the capacity. An unconfirmed

report listed the 1947 copper production at 8,000 tons. SECRETOR Release 260NTROLA-RDPS-06FF64ALG06NE

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(2) ALAVERDI (Copper Combine) (2,11)

aa. Installation: A concentration plant was built not until wartime. Until then rich ores were immediately smelted.

5 water-jacketed furnaces and converters.

Electrolytic department(built after the war)

bulphuric acid plant

Power station: 5,000 kws (this station also supplies the ALAVERDI Copper mines).

bb. Froduction: The 1949 crude copper production was estimated at 10,000 tons. ALAVERDI-mined ores and concentrates of the SANGESUR Flant are processed. As the ore EXXEM deposits of the ALAVERDI District are almost exhausted it is possible that the SANGESUR Works will be enlarged while the ALAVERDI Flant will only produce electrolytic copper.

(3) SANGESUR(north of KAFAN) (Copper Works, Concentration (sources No.2,11)

aa. Installation:

Concentration plant with a sections for copper quartzite and one section for copper zinc ore.

Corper smelting plant with 4 reverberatory furnaces and

converters CONTROL U. S. OFFICIALS ONLY

11

power station with three Diesel aggregates.

bb. Froduction: The 1949 crude copper production was estimated at 5,000 tons. According to unconfirmed reports an alleged expansion of the plant would increase production up to 10,000 tons. Considering the exhaustion of the ALAVERDI deposits and the opening of new and larger occurrences near SANGESUR(PIRDOUDAN, KADSHARAN) it is well probable that the center of the Caucasian crude copper production has shifted to SANGESUR.

(4) KRASNOURALSK (Copper Works) (Sources No.2,11)

Concentration plant with **EXERCTIONS**Copper smelting plant. It has a roasting furnace department eight with **E** "Gould"furnaces, and a reverberatory furnace department ment with five furnaces, each equipped with a forty-ton converter.

bulphuric acid plant

Coal dust plant

bb Production: The 1949 crude copper production is estimated at 35,000 tons. The crude copper is delivered to the electrolytic department of the FYSHWA Plant.

Postwar construction work on a new workers' settlement

capacity. However, this has still to be confirmed.

(5) KROVGRAD(KIROV Copper Works) (Sources No.2,11)
aa.Installation:

Concentration plant with four sections

Copper melting plant with three water-jacketed furnaces, one reverberatory furnace department as well as five converters (two of 62 tons each and three of \$0 to 40 tons each) Sulphuric acid plant(production of sulphuric acid from pyritic wastes).

Fower station: 11,000 kws

(6) KARABASH(Copper Works) (Sources No.2,11)
aa.Installation:

Concentration plant

Copper smelting plant with three water-jacketed furnaces, one reverberatory furnace and four converters (40 tons each)

Flux department with four quartz furnaces and two lime kilns

Power station: 5,000 kws

bb. Froduction: The 1949 crude copper production is estimated at 20,000 tons. The produced crude Copper is processed in the PYSHMA and KYSHTYM Electrolytic Plants.

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(7) REVDA ("SUMS" Copper Works) (Sources No.2,11)

aa. Installation:

Concentration plant with six sections

Copper smelting plant with four cupola furnaces (volumetric capacity about 65 tons each) and three converters (totalingx capacity 150 tons).

Superphosphate factory plant

Sulphuric acid plant

Power station: 12,000 kws

bb.Production: The 1949 crude copper production is estimated at 20,000 tons. The crude copper is processed in the KYSHTUM Electrolytic Plant.

(9) MEDNOGORSK(Copper Works) (Sources No.2,11)

aa. Installation:

Concentration plant with two sections

Copper smelting plant with two water-jacketed furneces and two converters

Copper sulphide plant for smelting sulphurous copper ore Briquetting factory

"ulphuric acid plant

bb. Production. The 1949 crude copper production is estimated at 25,000 tons. The cyude copper is processed in the KYSHTVM

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capacity is under way.

(10) PYSHMA (Electrolytic Plant) (Sources No.2,11) **)

aa. Installation:

Concentration plant

Copper smelting plant with three furnaces with 15 ton volumetric capacity each.

mefining department with five reverberatory furnaces

Electrolytic department

Mud-processing department for the production of gold, silver, selenium, tellurium and indium.

bb. roduction: The 1949 electrolytic copper production is estimated at 95,000 tons and the 1949 crude copper production at 2,000 tons.

(11) KYSHTYM(Electrolytic plant) (Sources No.2,11) (R)
aa. Installation:

Dry dressing plant

Copper smelting plant with two converters

Electrolytic department

Mud-processing department for the production of gold, silver, selenium and tellurium

bb. Production: the 1940 electrolytic copper production is estimated at 12,000 tons the the crude copper production at

2,000 tons.

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(12) KARSAKPAI (Copper Works) (Sources No.2,11)

aa. Installation:

Concentration plant

Copper smelting plant with cupola furnaces and two converters

Power station

bb. Production: The 1949 crude copper production is estimated at 27,000 tons.

The produced crude copper is processed in the PYSHMA Electrolytic Plant.

(13) BALKHASH (Copper Works) (Sources No.2,11)

aa.Installation:

Concentration plant with six sections

Copper smelting department with three cupola furnaces and three convergers

Power station: 50,000 kws

bb. Froduction: the 1949 crude copper production is estimated at 50,000 tons. Substantial amounts of molybdenum are also produced.

The total annual capacity of the BALKHASH Combine and of the DZEZRAZGAN-KARSANPAI Combine is scheduled to be increased to 200,000 tons of crude copper.

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(14) GLUBOKOYE ("Irtysh"Polymetal Combine) (Sources No.2,11)

aa.Installation:

Copper smelting plant with water-jacketed furnaces and converters

power station: 8,500 kws

bb.Production: The 1949 crude copper production is estimated at 10,000 tons.Also the concentrates of the LENINOGORSK(formerly RIDDER) and BARNAUL Lead Works are processed.

(15) NORILEK (Nickel Combine) (Sources No.2,11)

aa. Installation: d. talls are not available

bb. Production: The 1949 crude copper production is

estimated at 1,000 tons. Copper is a by-product of nickel production.

3. Summary:

Dam

a. The Soviet Union will become independent of copper imports during the next years due to the considerable increase of domestic roduction.

The current domestic requirements will net only be completely secure, but also stockpiling will be possible.

b. The Soviet copper production is centered in the Urals and Kazakhstan **xx** regions

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1949 production (estimate)

percentage	of	total
output		,

Urals area	145,000	tons	•	57
Kazakhstan area	87,000	11		35
Other regions	18,000			. 8
Total	250,000	tons		100

The Kazakhstan production will inerexxexivathexen progressively increase in the coming years. The production snares of the Kazakh-

- c. The intensified 'processing of inferior ores will require a capacity increase of the concentration plants as well as an improvement of operation efficiency.
- d. The capacity of the electrolytic plants does not cover domestic requirements. No appropriate electrolytic capacity is available especially for the Mazakhstan-produced crude copper. These bottleneck will be eliminated not until the the KARAGANDA Electroytic Rix.

 Plant is completed. The realization of this project cannot yet be estimated, but it will not be achieved before 1955.
- *) Inis report is based on following information material:
- 1. "The most important mineral deposits of the globe" Edition No.3 Reichsstelle for geological research, BERLIN 1941 -
- 2. "The raw material bases of the Soviet Union"
 - Publication of the Economic Department of the I.G.Farben, 1939-Approved For Release 2001 12 N TROKO 13-0541 15 Feb (1980) 16 N V

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- 3."The raw material situation in the Soviet Union"
- Dummarizing treatise of the German High Command, 1942-
- 4. "Ekonomika Zwetnoi Metallopromyshlennosti SSSR"
 - Professor W.E.POTRESOV, MOSCOW 1938 -
- 5. "Copper" G.B.RG and FRIEDENSBURG, STUTTGART 1949
- 6. "The Five Year Plan of the Soviet Union, 1946 to 1950 "-
 - SMA Publication, BERLIN 1947 -
- 7. "Ekonomicheskaya Geografiga SSSR "
 - Gosisdat, MOSCOW 1940 -
- 8. "USSR" in figures "
- Institute for Economic Research, BERLIN 1941 -

1949)

- 9. "Prawda", "Isvestiya", "Trud", and Vneshnaya Torgovlya" (1948 to from 1946 to 1949.
- 10 "Metall Bulletin" 1940 and AMAGEM German newspaper reports from 1947 to 1949
- 11. Wartime records (RW interrogation of Soviet PW's) of the former German Armed Forces.

12. Copy power super Sept Vof. (1946-49)

**) Reference is made to Ec Eval Rep.MGL 1381 regarding the

| Electrolytic Plant in PVSHMA (Urals)

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CONTROLOGII2S: OFFICIALS ONLY 00040001-6 Location area of deposits οſ de osits Mining and smel-Amount of reserves Percentage of copper deposits with indication content ting of categories More than 10,000 tons Since 1939 mining 0.3 percent magnetic pyrites MONCHEGORSK; west of as by-product of nickel of Categories A and B (occasionally Considerable reserves 4 percent)copper KIROVSK and at the copper pyrites also nickel and of Category C platinum ores Imandra Lake (Northwest Part of Suspended since the Soviet union Up to 2.7 percent 1910. Dressing is complicated. Poscopper sibilities of processing are being investigated. copper pyrites PITKAERANTA; northeast of the zinc blende Ladoga Lake (Northwest Part of the Soviet nion) Up to 2.65 percent s 500,000 tons of ores No mining.At present being prospecgalena (all categories) copper near ted. Allegedly conside-No mining; resource: /MELVESHEGORSK North and east of the rabel copper content. probably too sligh Also tin and ore content. Onega Lake and other towns Co per content allegedly consiallegedly higher than No copper produc-(Northwest Part of derable amounts tion. So far only lead-and zinc content the Poviet Union) mining of lead and tin NAGOLNE KRYASH (Donbas region) Eastern Ukraine DERDORAK: 14, 300 tons No mining Probably slight of copper (A,B and C) copper content MARIUPOL DZHIMARIN: 450 tons of copper 285 tons of arsenic (A,B,and C) DARGAS: 5,000 tons of copper (A, B and C) BURON (North Caucasus)

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Part of the

Prichorosk depo-

border (DERDORAK, DZHIMAKIN, DARGAS)

sits at the Turkish

Auzharistan(Southwest Gruziya)

(Caucasus area)

Mining uncertain

mining activities

mining under way;

smelting in

KRASNOURALSK

1.5 to 1.9 ercent Slight local

```
ALAVERDI (ArmenianSSR)
                                                                                                                                MADAN near
                                                                                                                                                                                                                        Copper pyrites
                                                                                                                               ALAVERDI,
AKHTALA North
       (Caucasus area)
                                                                                                                                                                                                                        iron pyrites
                                                                                                                                                                                                                                                                                          more than 20,000 tons
                                                                                                                                of ALAVEADI,
                                                                                                                                                                                                                                                                                                                                                                                                                    4.8 to 6.7 percent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       wining is under
                                                                                                                                                                                                                                                                                          in (categories A and B) copper more than 74,000 tons (C) 2.0 percent tin
                                                                                                                                SHAUMYAN, SHAMLUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 way; smelting is
done in ALAVERDI
 KAFAN(Armenian SSR)
                                                                                                                                SANGESUR, AGARAK,
                                                                                                                                                                                                                        SANGESUR:
           (Caucasus area)
                                                                                                                                PEROUDAN
                                                                                                                                                                                                                        copper pyrite: SANGESUR; 15,000 tons
                                                                                                                                                                                                                                                                                                                                                                                                                 5 to 6 percent copper Mining under wa Concentration in
                                                                                                                                                                                                                       pyrites

AGARAK, PIROU-
DAN: molybdenum

containing

copper (A, B, and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

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of copper (A, B and C)

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of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)

including 150,000 tons

of copper (A, B and C)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SANGESUR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mining uncertain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The state of the s
                                                                                                                                                                                                                                                                                                                                                                                                                               molybdenum.
                                                                                                                                                                                                                                                                                                                                                                                                                                           olybdenum
nd C)

mining under way.

1 percent copper Smelting in
                                                                                                                                                                                                                                                                                        25,000 tons of molybdenum (A,B and C)
KADSHARAW (Armenian SSR)
                                                                                                                                                                                                                       Copper molyb-
Copper molyb-
copper (A, B and C)
  (Caucasus area)
                                                                                                                                                                                                                       denum ore
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALAVERDĬ
                                                                                                                                                                                                                                                                                           also unknown quantity of molybdenum
KIROVABAD (Azerbaijan SSR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Preparations are mad for mining
      (Caucasus area)
                                                                                                                                                                                                                                            bearing
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and pyrites Central group (Urals area) PYSHMA-KLYUCHEVKA

District of MOLOTOV

TUMINSK (3rd "Internationale Mana

formerly "St.Donato") Copper-NADEZHDINSK resp. molybden

VOLKOVO, KRASNUKWARDEISK,

and CHKALOV

NIZHNI_TAGIL

NOVO-LEVINSK

West Urals

Northern group

(Urals area)

Copper pyrites and pyrites

-er-رo[∪]

sandstone

molybdenum

Copper pyrite

ores

2 to 3 percent copper 202,000 tons (A,B) copper 1 to 2 percent tin 242,000 " (A,B andC)

98,000 tons (A,B) 2 to 4.3 percent min copper, also tin Smel (there is more tin than mining under way. copper Smelting in KIROVGL

30,000 tons (A,B and C) copper in KARPUSHILA and LEVIKHA; copper, up to 4 percent Mining under va Smelting in KIROV-

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allegedly consid rable

quantities

40,000 tons

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                                                                        FRURES 04 5 R0 9 0 0 0 0 0 4 0 0 0 1 - 6
                    DYEGTYARKA
                                                                        175,000 tons (A and B)
                                                                                                                        mining under way;
                                                                        700,000 "(A,B and C) copper
                                              pyrites
                                                                                                                        smelting in KEVDA
                                                                       1,000,000 tons (A,B and C) tin 1.1 percent ton
                    KARABASH, SOIMONOVSKI valley, copper pyrites
                                                    pyrites
                    KUZNECHIKHA
                                                                        104,000 tons (A,B)
138,000 "(A,B and C)
                                                                                                                                    Mining
                                                                                                         2 to 3 percent copper
                                                                                                      1 to 2 percent tin
                                                                                                                                    under way
                                       copper_pyrites,iron pyrites
                                                                                                                                   Smelting
                   BAIMAK-TANALYK
Southern group
                                                                                                                         in KARABASH
                                     copper glance, copper pyrites
                                                                                                4.7 to 6 percent Mining under way,

9.5 to 4.08 percent Smelting in BAIMAK
 (Urals area)
                    BLYAWA
                                                                        200,000 tons (A,E,C)
                                     and pyrites
                                                                        400,000 " (A,B,C)
                                     copper pyrites, iron pyrites
                   BURIBAI
                                                                                               (on the average :2 percent) Mining underway Smelting in BLYAVA
                                     copper pyrites, iron pyrites
                   KYSIL-KUDUK
Kazakhstan
                (20 miles southwest
                                                                        allegedly large reserves
  area
                                                                                                                            wo mining
                 ORSK)
                                                                                                                            No mining
                                                                        allegedly large reserves
   (Eastern group) BOSHCHEKUL
                                     Porphyrytic ores
                                                                        1,100,000 (A,B)
1,800,000 (A,B,C)
                                                                                                                         No mining
                (130 miles west
                of PAVLODAR)
                                                                                                                         No mining
                MAIKAINSK near KANKARALINSK,
                KAIRANT, USPENSK near KARKARALINSK
                                                                                                                         No mining
                                     Copper-bearing sammestones
 (Western group) DEHEZGASGAN
                                                                      1,500,000 tons (A,B)
                                                                                                      1.5 percent
                                                                                                                       mining under way, sme
                                                                                                                    ting in KARSAKPAI
                                    Porphyrytic ores
 (Southern group) KOUNRAD
                                                                      3,700,000
                                                                                  " (A,B,C)
                                                                                                1.5 percent average
 (Central Asia) ALMALYK south of TASHKENT, Uzbek SSR
                                    Porphyrytic ores
                                                                      2,100,000
                                                                                  " (A.B)
                                                                                                                      mining under way, smel
                                                                                                                     ting in BALKHASH
                                                                      ೩,600,000
                                                                                  п (A,B,C)
                                                                                                  1 percent
                NAUKAT, Tadzhik SSR
                                                                      3,000,000
                                                                                  "(A,B,C)
                                                                                                                  Preparations are made for
                                                                                                0.9 percent
 (West Siberia) GLUBOKOYE
                                                                                                               mining and smelting
                (near RIDDER)
                                                                                                                       No mining
                GLAFININ, YULIYA,
ULENSKI (in the Khakass region)
                                                                        200,000 tons (A,B)
                                                                                                                Mining under way; smelting
                                                                        300,000 "(A,B,C)
                                                                                                               in GLUBOKOYE
                                                                        530,000 "(A,B,C)
                                                                                                   1.2 percent No more mining operations
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(Eastern Siberia) NERCHINSK and other localities between the Shilka and Argunya Livers

Northwest Diberia

WORILSK copper, nickel (at the Yenisei estuary) (ores also contain platinum and cobalt

Novaya Zemlya island BELUZNYA(southern part of the southern island, the so-called "copper peninsula)

pure copper, copper pyrites iron pyrities

295,000 tons (A,B,C)

very considerable reserves

No mining; hardly xxxxxxxxx prosected

Traing under way, copper production as by-rpoductio of the NORILSK Plant

No mining

No mining , hardly prospecte

Far East

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